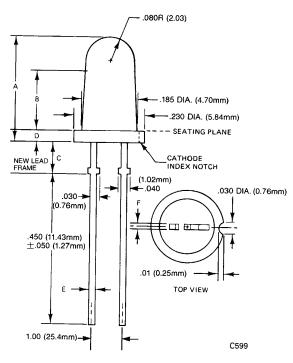


# TAPERED PACKAGE T-1¾ SOLID STATE LAMPS

### STANDARD RED MV502XA

#### **PACKAGE DIMENSIONS**



### DESCRIPTION

The MV502X Series of solid state indicators is made with gallium arsenide phosphide light emitting diodes. Encapsulation and lens is epoxy. Various lens effects are available for many indicator applications.

#### **FEATURES**

- Tapered barrel T-1¾
- High Intensity Red light source with various lens colors and effects
- T-1¾ with stand-off
- Versatile mounting on PC board or panel
- Snap in panel mounting clip available (See MP22 for clip detail)

TYPE	A	в	С	D	E&F	SOURCE COLOR	LENS	LENS EFFECT	POP-IN MOUNTING	CIRCUIT BOARD MOUNTING
MV5021A	.340	.190	.100	.040	.020	Red	White Diffused	Soft	X	X
MV5022A	.340	.190	.100	.040	.020	Red	Transparent Red	Point	x	X
MV5023A	.340	.190	.100	.040	.020	Red	Red Diffused	Soft	X	X
MV5024A	.340	.160	.130	.040	.020	Red	Red Diffused	Soft	X	X
MV5025A	.340	.160	.130	.040	.020	Red	Red Diffused	Flooded	X	X
MV5026A	.340	.160	.130	.040	.020	Red	Dark Red Diffused	Flooded	X	X



# TAPERED PACKAGE T-1% SOLID STATE LAMPS

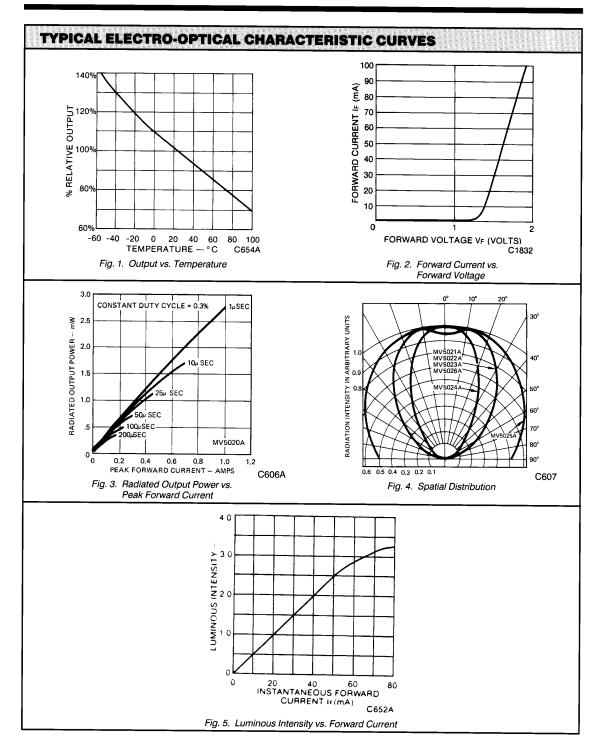
ELECTRO-OPTICAL CHARACTERISTICS (25°C Free Air Temperature Unless Otherwise Specified)									
PARAMETER		TEST CONDITIONS	UNITS	5021A	5022A	5023A	5024A	5025A	5026A
Luminous Intensity	min. typ.	I <sub>F</sub> =20 mA I <sub>F</sub> =20 mA	mcd mcd	0.5 1.6	0.6 1.6	0.4 1.6	0.9 3.0	0.1 0.4	0.1 0.6
Peak wavelength		I <sub>F</sub> =20 mA	nm	660	660	660	660	660	660
Spectral line half width		I <sub>F</sub> =20 mA	nm	20	20	20	20	20	20
Forward voltage V <sub>F</sub>	typ. max.	I <sub>F</sub> =20 mA I <sub>F</sub> =20 mA	V V	1.65 2.0	1.65 2.0	1.65 2.0	1.65 2.0	1.65 2.0	1.65 2.0
Reverse current I <sub>R</sub>	max.	V <sub>R</sub> =5.0V	μΑ	100	100	100	100	100	100
Reverse voltage V <sub>R</sub>	min.	I <sub>R</sub> =100 μA	V	5.0	5.0	5.0	5.0	5.0	5.0
Capacitance	typ.	V=0	pF	35	35	35	35	35	35
Viewing angle		Between 50% Points	degrees	90	90	90	60	180	90
Rise time and fall time			nsec nsec	50 50	50 50	50 50	50 50	50 50	50 50

ABSOLUTE MAXIMUM RATINGS	
Power dissipation at 25°C ambient Derate linearly from 25°C	
Storage and operating temperatures	55°C to +100°C
Continuous forward current at 25°C Peak forward current (1 usec pulse, 0.3% duty cycle)	100 mA
Reverse voltage	

### NOTES

 The leads of the device were immersed in molten solder at 260°C to a point 1/16 inch (1.6 mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.

# TAPERED PACKAGE T-1% SOLID STATE LAMPS





## TAPERED PACKAGE T-1 3/4 SOLID STATE LAMPS

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.